

PRL-TP-GP2

PBT

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	16	g/10min	ASTM D 1238
Temperature	250	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.019	mm/mm	ASTM D 955
Mechanical properties			
Value	Unit	Test Standard	
ISO Data			
Izod notched impact strength, +23°C	4.62	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength at Yield	51.7	MPa	ASTM D 638
Tensile Strength at Break	51.7	MPa	ASTM D 638
Flexural Modulus	2310	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53.4	J/m	ASTM D 256
Thermal properties			
Value	Unit	Test Standard	
ASTM Data			
DTUL @ 66 psi	149	°C	ASTM D 648
DTUL @ 264 psi	60	°C	ASTM D 648
Electrical properties			
Value	Unit	Test Standard	
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	29.9	kV/mm	ASTM D 149
Volume Resistivity	1E14	Ohm*cm	ASTM D 257
Arc Resistance	150	s	ASTM D 495
Other properties			
Value	Unit	Test Standard	
Density	1310	kg/m ³	ISO 1183
Density	1310	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	116 - 121	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	232 - 260	°C	-
Mold temperature	43.3 - 76.7	°C	-
Zone 1	232 - 249	°C	-
Zone 2	238 - 254	°C	-
Zone 3	243 - 260	°C	-

Characteristics**Processing**

Injection Molding

Applications

General Purpose

Delivery form

Pellets

Regional Availability

North America